



Molub-Alloy BRB 572

Bearing grease

Description

CASTROL MOLUB-ALLOY™ BRB 572 is a bearing grease, applicable for normal and elevated temperature (max. 120°C) and for long service intervals. Work and shear stability matches the service life of rolling bearings. Controlled mobility under “full pack” conditions act as a seal against contamination without excess churning and heat generation. • The base oils used in CASTROL MOLUB-ALLOY™ BRB 572 are high-quality mineral oils, containing inhibitors against rust and corrosion, and they are fortified against oxidation. • This unique grease is outstanding in shear stability and in controlled mobility under shear. This results from the selection of a most stable lithium thickening system and special manufacturing techniques. • Load carrying and antiwear properties beyond those of conventional greases result from chemical additives working synergistically with select CASTROL MOLUB-ALLOY™ lubricating solids, blended uniformly throughout the grease. The lubricating solids are most effective in protecting the machined surfaces of new bearings in critical running-in periods. Good bearing surfaces are essential to extended service life.

Application

- CASTROL MOLUB-ALLOY™ BRB 572 is an outstanding grease for all types of bearings (rolling, ball, roller bearings), including precision built. It is also used in general application, including journal bearings.
- “Full Pack Concept”: customarily, bearing manufacturers recommend packing bearings only 1/3 to 1/2 full to avoid churning, shear loss of consistency and overheating. In bearings with minimal grease capacity, CASTROL MOLUBALLOY™ BRB 572 can occupy effectively 60 % of this capacity.
- The bulk grease surrounding the action zone remains undisturbed, sealing out contaminants and minimizing “breathing” as a source of oxidation, water vapor and fine dust.
- In industrial operations the good sealing effect prevents dirt from entering the bearing.
- The outstanding physical and chemical stability of CASTROL MOLUB-ALLOY™ BRB 572 allows to extent relubrication intervals of bearings in inaccessible places.

Advantages

- Excellent sealing from hazardous environments, including dust, water and water vapor.
- Overall savings are derived from the above, reduced maintenance costs and downtime, smoother and more efficient operation with extended part life and extended lubricating cycles.

Typical Characteristics

Name	Method	Units	Molub-Alloy BRB 572
DIN Classification	DIN 51502	-	KPF 2K-30
Thickener type	-	-	Lithium Soap
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	265-295
Worked Penetration (100,000 strokes @ 25°C / 77°F) - change from 60 strokes	ISO 2137 / ASTM D217	0.1 mm	max. 25
Dropping point	ISO 2176 / ASTM D566	°C/°F	>180/>356
Base Oil Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	143
Base Oil Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	13.5
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	>230/>446
Water Resistance	DIN 51807-1	Rating	1
Rust Test - EMCOR (distilled water)	ISO 11007 / ASTM D6138	Rating	0/0
Copper Corrosion (3 hrs, 100°C / 212°F)	ASTM D4048	Rating	1
Roll Stability test - Shear Stability	ASTM D1831	0.1 mm	3
Timken OK Load	ASTM D2509	kg/lbs	16/35.3
Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr)	ISO 51350 / ASTM D2266	mm	0.52
Four Ball Wear test - Wear Scar Diameter	DIN 51350-5E	mm	<0.9
SKF R2F-A test	SKF test method	Pass	Pass
SKF R2F-B test (120°C)	SKF test method	Pass	Pass
FE-9 Bearing Life test - A/1500/6000-150	DIN 51821-2	Pass	Pass
Flow pressure @ -20°C / -4°F	DIN 51805	mbar	<600

Additional Information

- CASTROL MOLUB-ALLOY™ BRB 572 is not compatible with sodium or inorganic base greases. Lubrication intervals should be increased gradually, to ensure effective removal of previous lubricants and the formation of CASTROL MOLUB-ALLOY™ solid lubricants on the bearing surfaces.
- CASTROL MOLUB-ALLOY™ BRB 572 may be applied by automatic dispensing systems designed for NLGI 2 consistency.

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12 Jul 2012

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